

FIG. 1

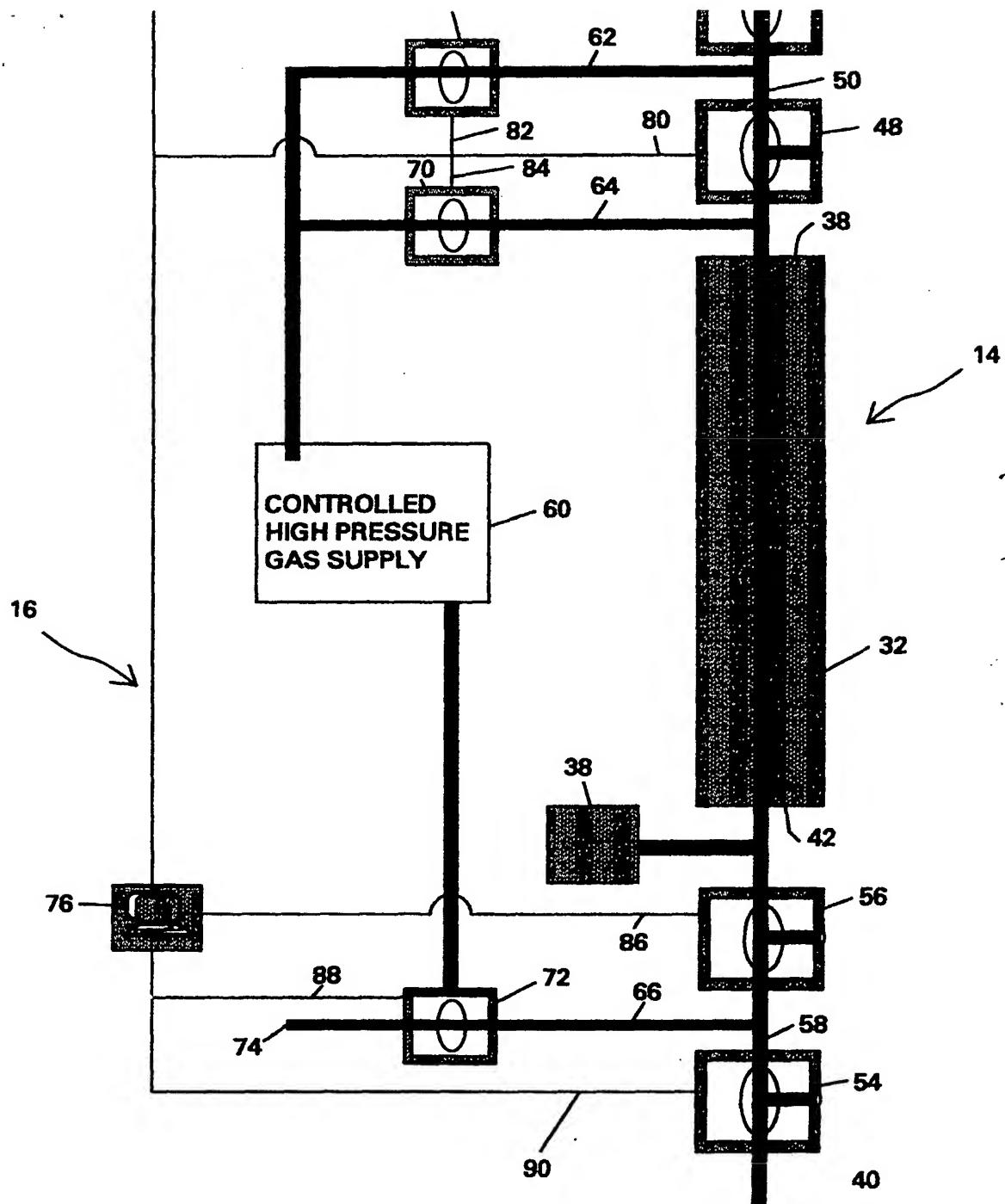


FIG. 2

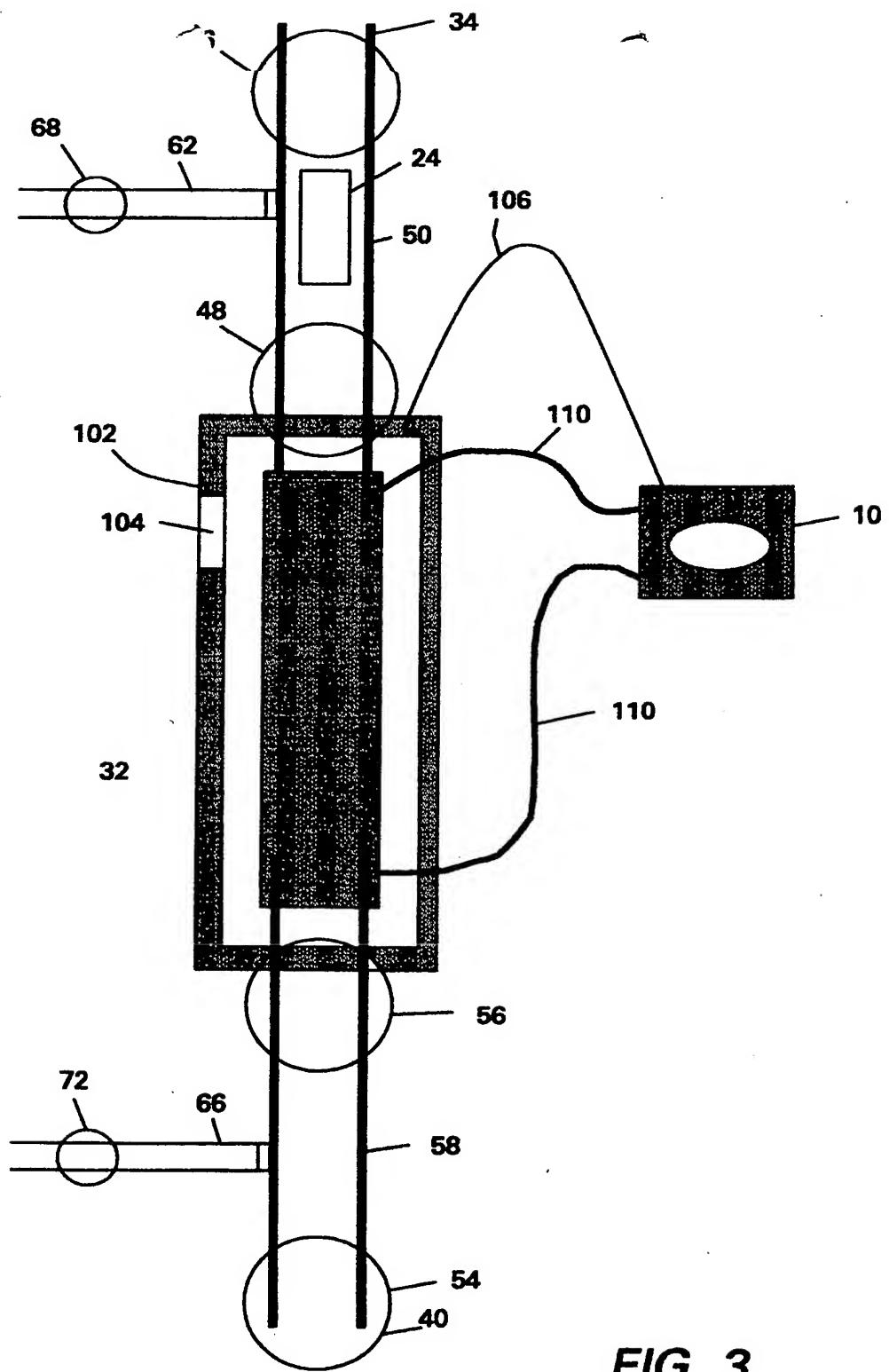


FIG. 3

VALVE AND ACTUATOR NUMBERS

STEP	46	48	68	70	72	54	56	38	ACTION
1	OPEN	CLOSED	CLOSED	VENTED	CLOSED	OPEN	OPEN	OFF	START SYSTEM
2	OPEN	CLOSED	CLOSED	VENTED	CLOSED	OPEN	OPEN	OFF	PRESSURE CHAM
3	OPEN	CLOSED	CLOSED	VENTED	CLOSED	OPEN	OPEN	OFF	VIAL TO LOCK
4	CLOSED	CLOSED	CLOSED	VENTED	CLOSED	OPEN	OPEN	OFF	START CHARGE LC
5	CLOSED	CLOSED	OPEN	VENTED	CLOSED	OPEN	OPEN	OFF	PRESSURE LOCK
6	CLOSED	OPEN	OPEN	VENTED	CLOSED	OPEN	OPEN	OFF	VIAL TO CHAMBER
7	CLOSED	CLOSED	CLOSED	OPEN	VENTED	CLOSED	OPEN	OFF	DEPRESSURIZE
8	OPEN	CLOSED	CLOSED	OPEN	VENTED	CLOSED	OPEN	OFF	END CHARGE LOC
9	OPEN	CLOSED	CLOSED	OPEN	VENTED	CLOSED	OPEN	OFF	START DISCHARGE
10	OPEN	CLOSED	CLOSED	OPEN	VENTED	CLOSED	CLOSED	OFF	PRESSURE LOCK
11	OPEN	CLOSED	CLOSED	OPEN	GAS	CLOSED	CLOSED	OFF	ACTUATE VIAL SH
12	OPEN	CLOSED	CLOSED	OPEN	GAS	CLOSED	CLOSED	ON	DROP VIAL
13	OPEN	CLOSED	CLOSED	OPEN	GAS	OPEN	CLOSED	ON	RELEASE NE VIAL
14	OPEN	CLOSED	CLOSED	OPEN	GAS	CLOSED	CLOSED	OFF	DEPRESSURIZE
15	OPEN	CLOSED	CLOSED	OPEN	VENTED	CLOSED	CLOSED	OFF	DISCHARGE VIAL
16	OPEN	CLOSED	CLOSED	OPEN	VENTED	CLOSED	OPEN	OFF	

FIG. 4

**INFLUENCE OF 129 MAIN EFFECTS AND INTERACTIONS
(AS MEASURED BY ANOVA Sum of Squares)**

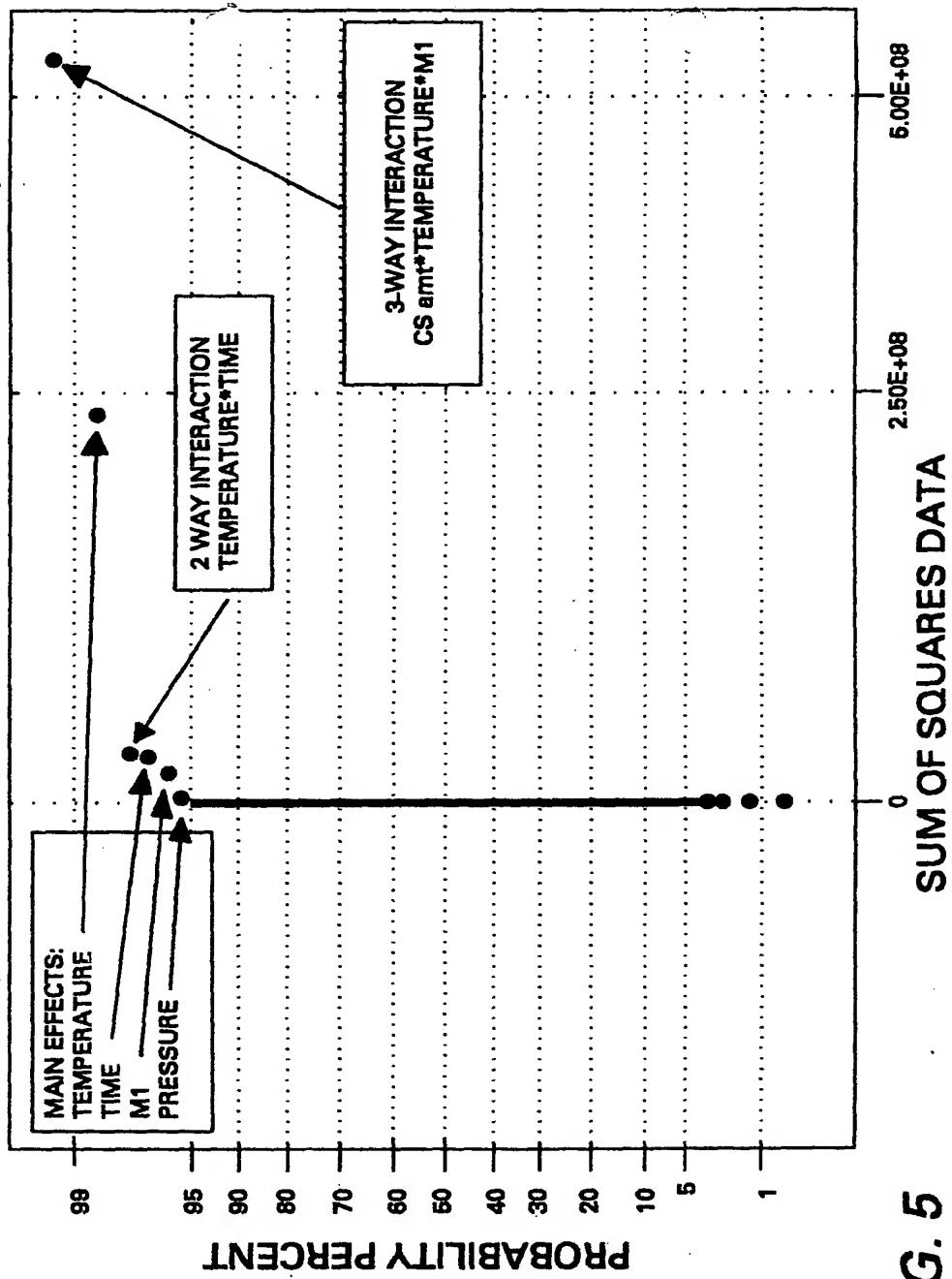


FIG. 5